

```

      E DIALLYL SULFIDE/CN
      SET EXPAND CONTINUOUS
L1      1 S E3
      E DIALLYL DISULFIDE/CN
L2      1 S E15
      E DIALLYL TRISULFIDE/CN
L3      1 S E27
      E DIALLYL TETRASULFIDE/CN
L4      1 S E39

FILE 'CAPLUS' ENTERED AT 15:37:29 ON 29 JUL 2010
L5      72 S L1 AND L2 AND L3 AND L4
L6      37 S L5 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)

FILE 'REGISTRY' ENTERED AT 15:38:57 ON 29 JUL 2010
      E GLUACS/CN
      E GAMMA-GLUTAMYL-S-ALLYLCYSTEINE/CN
      E ALLICIN/CN
L7      1 S E75
      E ALLIIN/CN
L8      1 S E87

FILE 'CAPLUS' ENTERED AT 15:40:21 ON 29 JUL 2010
L9      1 S US 20080214678/PN

FILE 'REGISTRY' ENTERED AT 15:40:41 ON 29 JUL 2010
L10     1 S 539-86-6/RN
      SET NOTICE 1 DISPLAY
      SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 15:40:57 ON 29 JUL 2010
L11     1 S 556-27-4/RN
      SET NOTICE 1 DISPLAY
      SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 15:41:15 ON 29 JUL 2010
L12     1 S 592-88-1/RN
      SET NOTICE 1 DISPLAY
      SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 15:41:30 ON 29 JUL 2010
L13     1 S 2050-87-5/RN
      SET NOTICE 1 DISPLAY
      SET NOTICE LOGIN DISPLAY

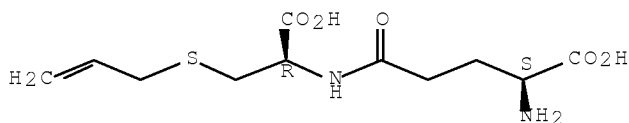
FILE 'REGISTRY' ENTERED AT 15:41:45 ON 29 JUL 2010
L14     1 S 2179-57-9/RN
      SET NOTICE 1 DISPLAY
      SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 15:42:07 ON 29 JUL 2010
L15     1 S 2444-49-7/RN
      SET NOTICE 1 DISPLAY
      SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 15:42:25 ON 29 JUL 2010
L16     1 S 91216-95-4/RN

```

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN  
 RN 91216-95-4 REGISTRY  
 CN L-Cysteine, L-γ-glutamyl-S-2-propen-1-yl- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Glutamine, N-[2-(allylthio)-1-carboxyethyl]-, L- (7CI)  
 CN L-Cysteine, L-γ-glutamyl-S-2-propenyl- (9CI)  
 CN L-Cysteine, N-L-γ-glutamyl-S-2-propenyl-  
 FS STEREOSEARCH  
 DR 871093-87-7, 126643-53-6  
 MF C11 H18 N2 O5 S  
 CI COM  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER, USPATFULL  
 (\*File contains numerically searchable property data)  
 DT.CA CAPLUS document type: Conference; Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP  
 (Preparation); USES  
 (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL  
 (Biological  
 study); FORM (Formation, nonpreparative); OCCU (Occurrence);  
 PREP  
 (Preparation); PROC (Process); PRP (Properties); RACT (Reactant  
 or  
 reagent); USES (Uses); NORL (No role in record)  
 Absolute stereochemistry.



SET NOTICE 1 DISPLAY  
 SET NOTICE LOGIN DISPLAY

FILE 'CAPLUS' ENTERED AT 15:42:48 ON 29 JUL 2010  
 L17 41 S L16  
 L18 2 S L17 AND L5

L18 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN  
 AB Compns. containing diallyl sulfide, diallyl disulfide, diallyl  
 trisulfide and diallyl tetrasulfide, as well γ-glutamyl-S-  
 allylcysteine, allicin and alliin, extracted from garlic, are  
 insecticide and acaricide.  
 ACCESSION NUMBER: 2005:492122 CAPLUS Full-text  
 DOCUMENT NUMBER: 143:2646  
 TITLE: Diallyl polysulfides from garlic as  
 insecticides and  
 acaricides  
 INVENTOR(S): Gaudout, David; Inisan, Claude; Durechou,  
 Serge;  
 Megard, Denis  
 PATENT ASSIGNEE(S): Diana Vegetal, Fr.  
 SOURCE: Fr. Demande, 20 pp.

DOCUMENT TYPE: CODEN: FRXXBL  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: French  
 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2863144	A1	20050610	FR 2003-14394	
20031209				
FR 2863144	B1	20060804		
CA 2548601	A1	20050623	CA 2004-2548601	
20041209				
WO 2005055713	A2	20050623	WO 2004-FR3173	
20041209				
WO 2005055713	A3	20051222		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,				
CA, CH,				
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,				
GB, GD,				
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,				
KZ, LC,				
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,				
NA, NI,				
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,				
SL, SY,				
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,				
ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,				
ZW, AM,				
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,				
DE, DK,				
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL,				
PL, PT,				
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,				
GW, ML,				
MR, NE, SN, TD, TG				
EP 1691616	A2	20060823	EP 2004-805676	
20041209				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,				
MC, PT,				
IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
BR 2004017404	A	20070508	BR 2004-17404	
20041209				
US 20080214678	A1	20080904	US 2008-582043	
20080317				
PRIORITY APPLN. INFO.:			FR 2003-14394	A
20031209				
			WO 2004-FR3173	W
20041209				

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 IPCI A01N0031-00 [I,C]; A01N0059-04 [I,C]; A01N0065-00 [I,C]; A01N0065-00  
 [I,A]; A01N0031-02 [I,A]; A01N0059-04 [I,A]  
 IPCR A01N0065-42 [I,C]; A01N0065-42 [I,A]; A01N0031-00 [I,C]; A01N0031-02

[I,A]; A01N0041-00 [I,C\*]; A01N0041-10 [I,A]; A01N0041-12 [I,A];  
A01N0059-04 [I,C]; A01N0059-04 [I,A]

CC 5-4 (Agrochemical Bioregulators)

IT 539-86-6P, Allicin 556-27-4P, Alliin 592-88-1P, Diallyl  
sulfide 2050-87-5P, Diallyl trisulfide 2179-57-9P,  
Diallyl disulfide 2444-49-7P, Diallyl tetrasulfide  
91216-95-4P

RL: AGR (Agricultural use); BUU (Biological use, unclassified);

PUR (Purification or recovery); BIOL (Biological study); PREP  
(Preparation);

USES (Uses)  
(insecticidal and acaricidal garlic extract containing)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE  
THIS RECORD  
(2 CITINGS)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE  
FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE  
RE FORMAT

L18 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN

AB The antioxidant properties of three garlic preps. and  
organosulfur compds. in garlic have been determined Aged garlic  
extract inhibited the emission of low level chemiluminescence and  
the early formation of thiobarbituric acid-reactive substances  
(TBA-RS) in liver microsomal fraction initiated by t-Bu  
hydroperoxide. However, the water exts. of raw and heat-treated  
garlic enhanced the emission of low level chemiluminescence.  
Among the variety of organosulfur compds., S-allylcysteine (SAC)  
and S-allylmercaptocysteine (SAMC), the major organosulfur compds.  
found in aged garlic extract, showed radical scavenging activity  
in both chemiluminescence and 1,1-diphenyl-2-picrylhydrazyl (DPPH)  
assays, indicating that these compds. may play an important role  
in the antioxidant activity of aged garlic extract

ACCESSION NUMBER: 1995:233868 CAPLUS Full-text

DOCUMENT NUMBER: 122:71940

ORIGINAL REFERENCE NO.: 122:13475a,13478a

TITLE: Antioxidant and radical scavenging effects of  
aged  
garlic extract and its constituents

AUTHOR(S): Imai, J.; Ide, N.; Nagae, S.; Moriguchi, T.;  
Matsuura,  
H.; Itakura, Y.

CORPORATE SOURCE: Inst. OTC Res., Wakunaga Pharmaceutical Co.  
Ltd.,  
Hiroshima, 729-64, Japan

SOURCE: Planta Medica (1994), 60(5), 417-20  
CODEN: PLMEAA; ISSN: 0032-0943

PUBLISHER: Thieme

DOCUMENT TYPE: Journal

LANGUAGE: English

CC 1-12 (Pharmacology)  
Section cross-reference(s): 17

IT 70-18-8, Glutathione, biological studies 556-27-4, Alliin  
592-88-1, Diallyl sulfide 1115-93-1, S-Propyl-L-cysteine  
1187-84-4, S-Methyl-L-cysteine 2050-87-5, Diallyl trisulfide

2179-57-9, Diallyl disulfide 2444-49-7, Diallyl  
tetrasulfide 19046-22-1 21593-77-1, S-Allyl-L-cysteine  
23127-41-5  
32726-14-0, Methiin 52438-09-2 91212-00-9 91216-95-4  
92285-01-3, Ajoene 118686-45-6, Diallyl pentasulfide 125263-  
70-9,  
Allixin  
RL: BAC (Biological activity or effector, except adverse); BSU  
(Biological  
study, unclassified); BIOL (Biological study)  
(antioxidant and radical scavenging effects of aged garlic  
extract and  
organosulfur constituents)